

IN THE CLAIMS

Please amend claims 1, 7-9, 16, 22-24, 31 and 37-39 as follows:

1. (CURRENTLY AMENDED) A method of processing a video stream received by a computer, the method comprising:
receiving a video stream, wherein the video stream comprises multiple frames;
analyzing the video stream to identify scene changes between frames of the video stream; and
marking one or more user or private data fields of one or more scene-change frames of the video stream to indicate a scene change and a type of scene change, in a manner transparent for encoded content within the frames, and in order to provide an index of access points for displaying specific scenes or segments, ~~wherein the user or private data fields are stored separately from the encoded content within the frames.~~
2. (ORIGINAL) The method of claim 1, wherein the computer comprises an encoder.
3. (ORIGINAL) The method of claim 2, wherein marking one or more fields occurs within the encoder.
4. (CANCELED)
5. (CANCELED)
6. (ORIGINAL) The method of claim 1, wherein a scene change occurs when the content of a first frame of the video stream changes sufficiently in a second frame of the video stream such that the second frame triggers a new view relative to the first frame.
7. (CURRENTLY AMENDED) The method of claim 1, wherein the type of scene change ~~data comprises a data bit, and wherein updating the data bit indicates a scene change~~ occurred due to one or more specific scene change attributes.
8. (CURRENTLY AMENDED) The method of claim ~~[[1]]~~ 7, wherein the ~~scene change data~~ comprises one or more data bits representing a scene change attributes, ~~and wherein updating one or~~

~~more data bits indicates a scene change due to a corresponding scene change attribute~~ identify that a scene change occurred due to a scan, tilt, zoom or cut.

9. (CURRENTLY AMENDED) The method of claim 8, ~~wherein the scene change data further comprises comprising one or more additional data bits, wherein the additional data bits that indicate the represent an amount a scene has changed in relation to the~~ of change caused by a corresponding scene change attribute.

10. (ORIGINAL) The method of claim 1, further comprising compressing the video stream to generate a video file.

11. (ORIGINAL) The method of claim 10, wherein a frame of the video file representing a scene change comprises a full frame

12. (ORIGINAL) The method of claim 10, wherein a frame of the video file representing a scene change comprises a delta frame.

13. (ORIGINAL) The method of claim 10, further comprising extracting one or more frames representing a scene change from the video file with an extraction tool, wherein the extraction tool selects frames representing scene changes by reading scene change data in the fields.

14. (ORIGINAL) The method of claim 13, wherein the extraction tool accesses the scene change data in the fields in real time.

15. (ORIGINAL) The method of claim 13, further comprising generating a storyboard with the extracted frames.

16. (CURRENTLY AMENDED) An apparatus for processing a video stream, comprising:
a computer; and

one or more computer programs, performed by the computer, for receiving a video stream, wherein the video stream comprises multiple frames; analyzing the video stream to identify scene changes between frames of the video stream; and marking one or more user or private data fields of

one or more scene-change frames of the video stream to indicate a scene change and a type of scene change, in a manner transparent for encoded content within the frames, and in order to provide an index of access points for displaying specific scenes or segments, ~~wherein the user or private data fields are stored separately from the encoded content within the frames.~~

17. (ORIGINAL) The apparatus of claim 16, wherein the computer comprises an encoder.

18. (ORIGINAL) The apparatus of claim 17, wherein marking one or more fields occurs within the encoder.

19. (CANCELED)

20. (CANCELED)

21. (ORIGINAL) The apparatus of claim 16, wherein a scene change occurs when the content of a first frame of the video stream changes sufficiently in a second frame of the video stream such that the second frame triggers a new view relative to the first frame.

22. (CURRENTLY AMENDED) The apparatus of claim 16, wherein the type of scene change data comprises a data bit, and wherein updating the data bit indicates a scene change occurred due to one or more specific scene change attributes.

23. (CURRENTLY AMENDED) The apparatus of claim ~~[[16]]~~ 22, wherein the ~~scene change data comprises one or more data bits representing a scene change attributes, and wherein updating one or more data bits indicates a scene change due to a corresponding scene change attribute~~ identify that a scene change occurred due to a scan, tilt, zoom or cut.

24. (CURRENTLY AMENDED) The apparatus of claim 23, wherein the ~~scene change data further comprises comprising one or more additional data bits, wherein the additional data bits that indicate the~~ represent an amount a scene has changed in relation to the ~~of change caused by a~~ corresponding scene change attribute.

25. (ORIGINAL) The apparatus of claim 16, further comprising compressing the video stream to generate a video file.

26. (ORIGINAL) The apparatus of claim 25, wherein a frame of the video file representing a scene change comprises a full frame.

27. (ORIGINAL) The apparatus of claim 25, wherein a frame of the video file representing a scene change comprises a delta frame.

28. (ORIGINAL) The apparatus of claim 25, further comprising extracting one of more frames representing a scene change from the video file with an extraction tool, wherein the extraction tool selects frames representing scene changes by reading scene change data in the fields.

29. (ORIGINAL) The apparatus of claim 28, wherein the extraction tool accesses the scene change data in the fields in real time.

30. (ORIGINAL) The apparatus of claim 28, further comprising generating a storyboard with the extracted frames.

31. (CURRENTLY AMENDED) An article of manufacture comprising a computer program carrier readable by a computer and embodying one or more instructions executable by the computer to perform method steps for processing a video stream in the computer, the method comprising:

receiving a video stream, wherein the video stream comprises multiple frames;
analyzing the video stream to identify scene changes between frames of the video stream; and
marking one or more user or private data fields of one or more scene-change frames of the video stream to indicate a scene change and a type of scene change, in a manner transparent for encoded content within the frames, and in order to provide an index of access points for displaying specific scenes or segments, ~~wherein the user or private data fields are stored separately from the encoded content within the frames.~~

32. (ORIGINAL) The article of manufacture of claim 31, wherein the computer comprises and encoder.

33. (ORIGINAL) The article of manufacture of claim 31, wherein marking one or more fields occurs within the encoder.

34. (CANCELED)

35. (CANCELED)

36. (ORIGINAL) The article of manufacture of claim 31, wherein a scene change occurs when the content of a first frame of the video stream changes sufficiently in a second frame of the video stream such that the second frame triggers a new view relative to the first frame.

37. (CURRENTLY AMENDED) The article of manufacture of claim 31, wherein the type of scene change data comprises a data bit, and wherein updating the data bit indicates a scene change occurred due to one or more specific scene change attributes.

38. (CURRENTLY AMENDED) The article of manufacture of claim ~~[[31]]~~ 37, wherein the ~~scene change data comprises one or more data bits representing a scene change attributes, and wherein updating one or more data bits indicates a scene change due to a corresponding scene change attribute~~ identify that a scene change occurred due to a scan, tilt, zoom or cut.

39. (CURRENTLY AMENDED) The article of manufacture of claim 38, ~~wherein the scene change data further comprises~~ comprising one or more additional data bits, ~~wherein the additional data bits that indicate the~~ represent an amount a scene has changed in relation to the change caused by a corresponding scene change attribute.

40. (ORIGINAL) The article of manufacture of claim 31, further comprising compressing the video stream to generate a video file.

41. (PREVIOUSLY PRESENTED) The article of manufacture of claim 40, wherein a frame of the video file representing a scene change comprises a full frame.

42. (PREVIOUSLY PRESENTED) The article of manufacture of claim 40, wherein a frame of the video file representing a scene change comprises a delta frame.

43. (PREVIOUSLY PRESENTED) The article of manufacture of claim 40, further comprising extracting one or more frames representing a scene change from the video file with an extraction tool, wherein the extraction tool selects frames representing scene changes by reading scene change data in the fields.

44. (PREVIOUSLY PRESENTED) The article of manufacture of claim 43, wherein the extraction tool accesses the scene change data in the fields in real time.

45. (PREVIOUSLY PRESENTED) The article of manufacture of claim 43, further comprising generating a storyboard with the extracted frames.